

PATENT APPLICATION

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re the Application of

Hitoshi TSUCHIYA et al.

Application No.: 10/736,598

Filed: December 17, 2003

Docket No.: 118128

For: LIQUID CRYSTAL DISPLAY DEVICE AND ELECTRONIC APPARATUS

INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

Pursuant to 37 CFR §1.56, the attention of the Patent and Trademark Office is hereby directed to the reference(s) listed on the attached PTO-1449. Unless otherwise indicated herein, one copy of each reference is attached. It is respectfully requested that the information be expressly considered during the prosecution of this application, and that the reference(s) be made of record therein and appear among the "References Cited" on any patent to issue therefrom.

- ☒ 1. This Information Disclosure Statement is being filed (a) within three months of the U.S. filing date of this non-CPA application, OR (b) before the mailing date of a first Office Action on the merits in the present application. No certification or fee is required.
- ☒ 2. Relevance of references 2 and 3 is discussed in the present specification.
- ☒ 3. English-language Abstracts of the non-English language references are attached hereto.
- ☒ 4. Computer-generated English translations of the following Japanese Patent Publications have been obtained from the website of the Japanese Patent Office ([<http://www.jpo.go.jp>]), and are attached, but have not been reviewed for accuracy. See References 1 and 2.

Respectfully submitted,



James A. Oliff  
Registration No. 27,075

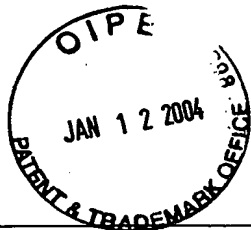
Eric D. Morehouse  
Registration No. 38,565

JAO:EDM/gam

Date: January 12, 2004

OLIFF & BERRIDGE, PLC  
P.O. Box 19928  
Alexandria, Virginia 22320  
Telephone: (703) 836-6400

|  |
|--|
| DEPOSIT ACCOUNT USE<br>AUTHORIZATION<br>Please grant any extension<br>necessary for entry;<br>Charge any fee due to our<br>Deposit Account No. 15-0461 |
|--|

Sheet 1 of 1Form PTO-1449  
(REV. 8-83)US Dept. of Commerce  
PATENT & TRADEMARK OFFICEATTY DOCKET NO.  
118128APPLICATION NO.  
10/736,598

## INFORMATION DISCLOSURE STATEMENT

(Use several sheets if necessary)

APPLICANT(S)  
Hitoshi TSUCHIYA et al.FILING DATE  
December 17, 2003

GROUP

## U.S. PATENT DOCUMENTS

| EXAMINER<br>INITIAL |  | DOCUMENT NUMBER | DATE | NAME | CLASS | SUB<br>CLASS |
|---------------------|--|-----------------|------|------|-------|--------------|
|                     |  |                 |      |      |       |              |
|                     |  |                 |      |      |       |              |
|                     |  |                 |      |      |       |              |
|                     |  |                 |      |      |       |              |
|                     |  |                 |      |      |       |              |
|                     |  |                 |      |      |       |              |
|                     |  |                 |      |      |       |              |

## FOREIGN PATENT DOCUMENTS

|  |   | DOCUMENT NUMBER   | DATE       | COUNTRY | CLASS | SUB<br>CLASS |
|--|---|---|------------|---------|-------|--------------|
|  | 1 | JP-A-2002-350853 (w/English abstract & JPO translation) | 12/04/2002 | Japan   |       |              |
|  | 2 | JP-A-11-242226 (w/English abstract & JPO translation)   | 09/07/1999 | Japan   |       |              |
|  |   |   |            |         |       |              |
|  |   |   |            |         |       |              |
|  |   |   |            |         |       |              |

## OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, etc.)

|  |   |  |
|--|---|--|
|  | 3 | JISAKI et al., "Development of transfective LCD for high contrast and wide viewing angle by using homeotropic alignment", <i>Asia Display</i> , IDW '01 (2001), pp. 133-136. |
|  |   |  |
|  |   |  |
|  |   |  |
|  |   |  |
|  |   |  |
|  |   |  |
|  |   |  |

EXAMINER

DATE CONSIDERED

Examiner: Initial if citation considered, whether or not citation is in conformance with M.P.E.P. 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Date: January 12, 2004